

Message Text

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PAGE 01 STATE 052856

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FM SECSTATE WASHDC

TO AMEMBASSY TOKYO

INFO DOD

CNO

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E.O. 11652: GDS

TAGS: MARR, JA

SUBJECT: GEODETIC SURVEYS FOR LORAN-A STATIONS

1. BECAUSE OF SUSPECTED GEODETIC ERRORS IN POSITIONAL ACCURACY OF TWO LORAN-A TRANSMITTER ANTENNAE LOCATED ON HACHIJO JIMA (HONSHU), AND MIYAKO JIMA, (RYUKYUS), U.S. NAVY PLANS TO REPOSITION THOSE ANTENNAE BY DOPPLER SATELLITE OBSERVATION SURVEY. SURVEY WOULD BE ACCOMPLISHED BY ON-SITE VISIT OF TWO U.S. CIVILIAN SCIENTIFIC PERSONNEL AND ONE ENLISTED USMC TOPOGRAPHIC SURVEYOR FROM U.S. NAVAL OCEANOGRAPHIC OFFICE. PREFERRED TIME OF VISIT IS MARCH AND APRIL 1974. ALL SURVEY WORK WOULD BE CONDUCTED IN VICINITY OF LORAN-A SITES, WITH NO MORE THAN THREE WEEKS AT EACH SITE.

2. INSTRUMENTATION TO BE USED BY SURVEY TEAM CONSISTS OF AN ANTENNA, PREAMPLIFIER, TRIPOD, CABLE, GEOCEIVER, DATA RECORDER AND BOX OF SPARE PARTS. TOTAL INSTRUMENT

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PAGE 02 STATE 052856

PACKAGE WILL BE ABOUT 500 LBS AND 30 CU. FT. THE GEOCEIVER IS A PORTABLE SATELLITE TRACKING INSTRUMENT DESIGNED TO RECEIVE DOPPLER, IONOSPHERIC REFRACTION AND TIMING FROM ARTIFICIAL EARTH SATELLITES TO DERIVE GEODETIC POSITION. THE OPERATION OF THE GEOCEIVER CONSISTS OF TRACKING THE FIVE NAVY NAVIGATION SATELLITES, FOR EACH SATELLITE 5 TO 13 PASSES PER DAY ARE RECEIVABLE DEPENDENT UPON THE LATITUDE OF THE OBSERVING POSITION. FOR GENERAL GEODETIC POSITION-

ING IT IS NORMALLY POSSIBLE TO OBTAIN A PRECISE POSITION FOR ANY PLACE IN THE WORLD WITHIN 4-8 DAYS, DEPENDING ON LATITUDE.

3. A CLASSIFIED REPORT WILL BE FURNISHED TO THE DEFENSE MAPPING AGENCY AND THE UNITED STATES COAST GUARD. AN UNCLASSIFIED SURVEY REPORT CAN BE FURNISHED TO GOJ, IF DESIRED.

4. EMBASSY SHOULD REQUEST GOJ AUTHORIZATION FOR VISIT OF THREE U.S. PERSONNEL DESCRIBED ABOVE TO CONDUCT GEODETIC SATELLITE SURVEY AND FOR DUTY-FREE ENTRY AND EXIT THROUGH AIRPORT IN TOKYO OF EQUIPMENT MENTIONED IN PARAGRAPH 2. BECAUSE OF REMOTE LOCATIONS INVOLVED, EMBASSY SHOULD ALSO REQUEST GOJ LOGISTICS SUPPORT (LODGING AND MEALS) FOR TEAM WHILE AT SITES ON REIMBURSABLE BASIS. ALSO REQUIRED IS 115-VOLT AC 60-CYCLE ELECTRICAL POWER FOR GEOCEIVER OPERATION. KISSINGER

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